

PO No	Supplier	Line No	Item No	Rel	Terms	Purchased Item	Description	Part No	Project	Equipment ID	Order Qty	Due Date	Received Qty	Accounting Job No	Container No	Status	Receive Date	Price/Unit
P0039320	AC1001-VC	4			Net 30	M304S11GA	304/316 0.125 Sheet: MATERIAL: AISI 304/316 SS SHEET ANNEALED AS PER MIL-S-5059 OR AMS 5513 (304) OR ASTM 5524 (316) OR ASTM A240 OR ASME SA240				64	3/21/2018	64		S052627	Stock	3/19/2018	\$ 12.23 / sf
		5				M304S18GA	304/316 0.050 Sheet: MATERIAL: AISI 304/316 SS SHEET ANNEALED AS PER MIL-S-5059 OR AMS 5513 (304) OR ASTM 5524 (316) OR ASTM A240 OR ASME SA240				128		128		S052628	Stock	3/19/2018	\$ 5.36 / sf
		9				M1018R0.313	1018-1025 Round Bar MATERIAL: AISI .313 : MATERIAL: AISI 1018-1025 ROUND BAR M1010S20GA AS PER MIL-S-7097 OR ASTM A108 receive ft				12		12		S052629	Stock	3/19/2018	\$ 0.21 / ft
		10				M6061T6B2.500X01.500	6061-T6 Bar 2.50 X 1.50 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft				24		24		S052630	Stock	3/19/2018	\$ 14.36 / ft
		12				M6061T6B1.250X03.000	6061-T6 Bar 1.250 X 3.000 MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft				12		12		S052631	Stock	3/19/2018	\$ 14.36 / ft
		13				M6061T6B1.000X02.000	6061-T6 Bar 1.00 X 2.00 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft				40		40		S052632	Stock	3/19/2018	\$ 7.46 / ft
		14				M6061T6B1.000X06.000	6061-T6 Bar 1.00 X 6.00 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft				24		24		S052633	Stock	3/19/2018	\$ 19.45 / ft
		15				M304R0.375	304 Round Bar 0.375 : MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE receive ft				36		36		S052634	Stock	3/19/2018	\$ 1.19 / ft
		18				M6061T6R1.125	6061 Round Bar 1.125 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ- A-200/8 OR AMS-QQ-A- 200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft				12		12		S052635	Stock	3/19/2018	\$ 3.45 / ft

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit
		19			M6061T6R0.250	6061-T6 Round Bar 0.250" : MATERIAL: 6061-T6 Round Bar T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ- AA-200/8 OR AMS-QQ-A- 200/8 OR AMS B221 OR ASTM B221 receive ft				20			S052636		Stock	3/19/2018	\$ 0.16 / ft
		20			M6061T6R1.500	6061-T6 Round Bar 1.50 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ- AA-200/8 OR AMS-QQ-A- 200/8 OR AMS B221 OR ASTM B221 receive ft							S052637		Stock	3/19/2018	\$ 5.52 / ft
		21			M6061T6R2.000	6061T6 Round Bar 2.00 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ- AA-200/8 OR AMS-QQ-A- 200/8 OR AMS B221 OR ASTM B221 receive ft							S052639		Stock	3/19/2018	\$ 9.81 / ft
Total:											412	412					

PURCHASE ORDER
PO039320

Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada
Tel (613) 632-5200

DART
AEROSPACE

Supplier:

AC1001-VC
Acier Ouellette Inc.
935 Boul. Du Havre
Valleyfield
QC
J6S 5L1 Canada
Phone: 800 667 4248
Fax: 450 377 5696

Ship To:

1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: PO039320
PO Date: 3/14/18
Due Date: 3/21/18
Purchase Order
Revision:
Revision Date:
Ship-To Contact:
Lavoie, Chantal
clavoie@dataero.com

Via:
Ground
Net 30

Freight Terms:

Special Comments: quote no. sou0092083 sou0091947

E-MAILED

REVISED

Line	Item	Part	Supplier	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
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1		M304B0.625X3.000		304 Bar .625 X 3.00	Firmed	3/21/18	12 ft	0 ft	12 ft	\$29.7275/ft	\$356.73
: MATERIAL: AISI 304/316											
SS BAR OR AISI 304/316											
SS PLATE AS PER ASTM											
A276 OR ASTM A240											
NOTE: AISI 303 NOT											
ACCEPTABLE											
receive ft											
2		D6201P		T Extrusion 4X4X3/8	Firmed	3/21/18	20 ft	0 ft	20 ft	\$23.00/ft	\$460.00

Line Item Note as per dwg d6201 rev. a
w/o no 174333

3		MT-A513-T- 0.750W0.085		A513 Seamless Alloy Steel Round Tubing 0.75"dia. x 0.085" Wall	Firmed	3/21/18	40 ft	0 ft	40 ft	\$3.60/ft	\$144.00
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4		M304S11GA		304/316 0.125 Sheet	Firmed	3/21/18	64 sf	0 sf	64 sf	\$12.2298/sf	\$782.71
: MATERIAL: AISI 304/316											
SS SHEET ANNEALED											
AS PER MIL-S-5059 OR											
AMS 5513 (304) OR AMS											
5524 (316) OR ASTM											
A240 OR ASME SA240											

5		M304S18GA		304/316 .050 Sheet	Firmed	3/21/18	128 sf	0 sf	128 sf	\$5.355/sf	\$685.44
: MATERIAL: AISI 304/316											
SS SHEET ANNEALED											
AS PER MIL-S-5059 OR											
AMS 5513 (304) OR AMS											
5524 (316) OR ASTM											
A240 OR ASME SA240											

128

64

MAR 19 2018

MAR 19 2018

DAS 11 9-89

DAS 11 9-89

Line	Item	Part	Supplier	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
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6	M2024T3S.032			2024-T3 .032 Sheet	Firmed	3/21/18	48 sf	0 sf	\$4.780625/sf		\$229.47
MATERIAL: 2024-T3											
ALUMINUM SHEET AS											
PER QQ-A-250/4 OR											
AMS-QQ-A-250/4 OR											
AMS 4037 OR ASTM											
B209											

7	M2024T3S.040			2024-T3 .040 Sheet	Firmed	3/21/18	96 sf	0 sf	\$5.601875/sf		\$537.78
MATERIAL: 2024-T3											
ALUMINUM SHEET AS											
PER QQ-A-250/4 OR											
AMS-QQ-A-250/4 OR											
AMS 4037 OR ASTM											
B209											

8	MT-4140QT-R1.125			AISI 4140 Quenched & Tempered Steel Round Bar 1.125" Dia.	Firmed	3/21/18	20 ft	0 ft	\$7.75/ft		\$155.00
: AISI 4140 QT Round Bar											
: MATL: AISI 4130											
QUENCHED & TEMPERED ROUND BAR											
AS PER											
ASTM 4140 QT OR ASTM											
4142 QT											

9	M1018R0.313			1018-1025 Round Bar	Firmed	3/21/18	12 ft	0 ft	\$0.2141666/ft		\$2.57
: MATERIAL: AISI 1018-1025 ROUND BAR											
M1010S20GA AS PER											
MIL-S-7097 OR ASTM											
A108											
receive ft											

10	M6061T6B2.500X01.500			6061-T6 Bar 2.50 X 1.50	Firmed	3/21/18	24 ft	0 ft	\$14.36125/ft		\$344.67
: MATERIAL: 6061-T6/T6511/T6510/T6511/T62											
ALUMINUM BAR PER											
QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS											
4117/4128/4115/4116 OR											
A-200/8 OR AMS 4160											
OR ASTM B211 OR											
ASTM B221											
receive ft											

11	M6061T6B1.000X5.000			6061T6 Bar 1.000 X 5.000	Firmed	3/21/18	24 ft	0 ft	\$19.7925/ft		\$475.02
: MATERIAL: 6061-T6/T6511/T6510/T6511/T62											
ALUMINUM BAR PER											
QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS											
4117/4128/4115/4116 OR											
A-200/8 OR AMS 4160											
OR ASTM B211 OR											
ASTM B221											
receive ft											

PURCHASE ORDER

Line	Item	Part	Supplier	Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
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12	M6061T6B1.250X03.000				6061T6 Bar 1.250 X 3.000	Firmed	3/21/18	12 ft	0 ft	12 ft	\$14.361666/ft	\$172.34
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13	M6061T6B1.000X02.000				6061-T6 Bar 1.00 X 2.00 MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	3/21/18	40 ft	0 ft	40 ft	\$7.46275/ft	\$298.51
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14	M6061T6B1.000X06.000				6061T6 Bar 1.00 X 6.00 MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	3/21/18	24 ft	0 ft	24 ft	\$19.451666/ft	\$466.84
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15	M304R0.375				304 Round Bar 0.375 MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE receive ft	Firmed	3/21/18	36 ft	0 ft	36 ft	\$1.188/ft	\$42.77
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16	M303H0.500				303 Hex Bar .500 MATERIAL: AISI 303 SS HEX BAR AS PER ASTM A582 NOTE: AISI 304/316 NOT ACCEPTABLE receive ft	Firmed	3/27/18	36 ft	0 ft	36 ft	\$9.817777/ft	\$353.44
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17	M303R0.625				303 Round Bar 0.625" MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582 NOTE: 304/316 NOT ACCEPTABLE receive ft	Firmed	3/21/18	12 ft	0 ft	12 ft	\$7.92666/ft	\$95.12
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PURCHASE ORDER

Line Item	Part	Supplier	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
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18	M6061T6R1.125		6061 Round Bar 1.125 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ- AA-200/8 OR AMS-QQ-A- 200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Firmed	3/21/18	12 ft	0 ft	12 ft	\$3.453333/ft	\$41.44
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19	M6061T6R0.250		6061-T6 Round Bar 0.250" : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ- AA-200/8 OR AMS-QQ-A- 200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Firmed	3/21/18	20 ft	0 ft	20 ft	\$0.1565/ft	\$3.13
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20	M6061T6R1.500		6061-T6 Round Bar 1.50 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ- AA-200/8 OR AMS-QQ-A- 200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Firmed	3/21/18	20 ft	0 ft	20 ft	\$5.521/ft	\$110.42
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21	M6061T6R2.000		6061T6 Round Bar 2.00 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ- AA-200/8 OR AMS-QQ-A- 200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Firmed	3/21/18	20 ft	0 ft	20 ft	\$9.8135/ft	\$196.27
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Grand Total: \$5,953.67										
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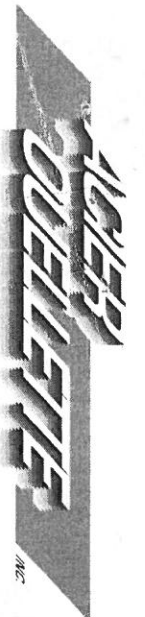
Order Notes

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Order Notes

Procurement Quality Clauses
A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)
A026 certification of material conformance
A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents
A048 counterfeit parts avoidance, detection, mitigation and disposition program
A049 supplier awareness
Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 3/15/18 11:10 AM dart.lavoie.chantal



DELIVERY - CLIENT

ACIER OUELLETTE INC.

Copy

CO00078754

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Customer N° CL10001056
Date 2018/03/15
Delivery date 2018/03/16
Your order N° 039320
Processed by Josianne Bourdon
Salesman
Carrier OUELLETTE VALLEYFIELD
Credit Terme Net 30 Days

Instruction F-M

Att : CHANTAL LAVOIE Tél.: 613-632-5200
Delivery Route 5

Page 1

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
1 SHEET SS 11G SS304-2B (4 X 8) FESS-11G483042B 3402 2 X 4' X 8' HEAT: 459P LINE 4	336.00	64.00	PI2_\$CLB		Q+		64' P12			MAR 19 2018	DAS 11 9-89
2 SHEET SS 18G SS304-2B (4 X 8) FESS-18G483042B 3425	268.80	128.00	PI2_\$CLB		Q+		128' P12			MAR 19 2018	DAS 11 9-89
3 ROUND CR 5/16-1018 (R) RCR-516 5348 4 X 4' X 8' HEAT: L2513C03 LINE 5	3.13	12.00	PI_\$CLB		Q+		12'			MAR 19 2018	DAS 11 9-89
4 FLAT ALU 1 1/2 X 2 1/2 6061-T6 FAL-112212 2439 1 X 12' R/L HEAT: 4199444 LINE 10 2 X 12' HEAT: 386350 LINE 11	105.74	24.00	PI_\$CLB		Q+		24'			MAR 19 2018	DAS 11 9-89

NIR : R-109516-6

Next Page...



DELIVERY - CLIENT

Copy

CO00078754

ACIER OUELLETTE INC.

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N°

CL10001056

Date

2018/03/15

Delivery date

2018/03/16

Your order N°

039320

Processed by

Josianne Bourdon

Salesman

Carrier

OUELLETTE VALLEYFIELD

Credit Terme

Net 30 Days

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M

Delivery Route 5

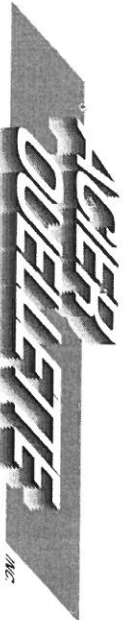
Page

2

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
5 FLAT ALU 1 1/4 X 3 6061-T6 * FAL-1143 2458 1 X 12' HEAT: 38355 LINE 13	52.87	12.00	PL_\$CLB		01/11		12'			MAR 19 2018	DAS 11 9-89
6 FLAT ALU 1 X 2 6061-T6 * FAL-12 2497 2 X 20' HEAT: 386402 LINE 14	96.00	40.00	PL_\$CLB		00x2		40'			MAR 19 2018	DAS 11 9-89
7 FLAT ALU 1 X 6 6061-T6 * FAL-16 2536 2 X 12' HEAT: 37241 LINE 15	169.18	24.00	PL_\$CLB		01x2		24'			MAR 19 2018	DAS 11 9-89
8 ROUND SS 3/8 304 (R) RSS-38 5768 3 X 12' R/L HEAT: 646M LINE 16	13.54	36.00	PL_\$CLB		01x3		36'			MAR 19 2018	DAS 11 9-89

NIR : R-109516-6

Next Page...



DELIVERY - CLIENT

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ACIER OUELLETTE INC.

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N°

CL10001056

Date

2018/03/15

Delivery date

2018/03/16

Your order N°

039320

Processed by

Josianne Bourdon

Salesman

Carrier

OUELLETTE VALLEYFIELD

Credit Terme

Net 30 Days

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M

Delivery Route 5

Page

3

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only			
				CMD	EXP	B/O	IN	I	S	C
9 ROUND ALU 1 1/8 6061-T6 * RAL-118 5124 1 X 12' HEAT: Z00238043 LINE 19	14.00	12.00	PL_\$CLB		12'					MAR 19 2018 DAS 11 9-89
10 ROUND ALU 1/4 6061-T6 * RAL-14 5135 1 X 20' HEAT: 67081 LINE 20	1.16	20.00	PL_\$CLB		20'					MAR 19 2018 DAS 11 9-89
11 ROUND ALU 1 1/2 6061-T6 * RAL-112 5119 1 X 20' HEAT: 36375 LINE 21	41.52	20.00	PL_\$CLB		20'					MAR 19 2018 DAS 11 9-89
12 ROUND ALU 2 6061-T6 * RAL-2 5149 1 X 20' HEAT: SXD162058 LINE 22	73.80	20.00	PL_\$CLB		20'					MAR 19 2018 DAS 11 9-89

NIR : R-109516-6

Next Page...



4

OUT

Total (\$CAD)

Customer's Signature	M D		
	11/8/03/16		

5149

12AL-2-V

722 1994

49572



GLOBAL VIETNAM ALUMINIUM COMPANY LIMITED

Address: My Xuan Bi-Corac Industrial zone, My Xuan town, Tan Thanh district,

Ba Ria-Vung Tau province, Viet Nam

Tel: +84(0)643924954

Fax: +84(0)643924953

MILL TEST CERTIFICATE

Date: January 19, 2017

Consignee: SINO METAL RESOURCES INC.
4455 RUE COMENS SAINT-LAURENT, QUEBEC, H4S 1X5, CANADA

PO number: 16-P-121

(Customer PO) Inventory

Shipping Ref No: 17-0046

LC No: 1211111111111111

Date of Issue: January 18, 2017

Item Code: 1013403

Die Number: 1300009

Alloy & Temper: 6061-T6

Production Description: Round Bar 2"x20' 6061-T6 D000009

Length (inch): 240

Bundle number: 16-P-421-061, 16-P-421-062, 16-P-421-063, 16-P-421-064

Item Number: SXD162058

Date: 05/01/2017

Applicable Specifications: ASTM B221 STANDARDS

CHEMICAL ANALYSIS: %

Si	Mg	Fe	Co	Mn	Cr	Zn	Ti	Al	Other	Each	Total	Remark:
0.641	0.926	0.228	0.244	0.022	0.088	0.013	0.019	98.936	<0.05	<0.10	02/01/2017	

MECHANICAL ANALYSIS:

U.T. Strength (ksi)	Yield Strength (ksi)	Elongation % 1" 2"	Remark:
40.3	37.8	10.4	02/01/2017

All profiles, each profile with each MTC, showing material shipped match aluminum alloy as per standard, with chemical analysis and mechanical analysis to match aluminum alloy standard.

We hereby certify that the item listed have been checked and tested in accordance with the specifications noted and have been found to meet all the applicable requirements. Certifications are kept on file for 36 months from the date of purchase and are available for review upon request, referring to ASTM and the PO number.

Quality Manager



North American Stainless Canada Inc.
740 Imperial Road North
Guelph, ON N1K1Z3
Canada

METALLURGICAL TEST REPORT

6870 Highway 42 East
Chenit, KY 41045-9615
(502) 347-6000

Certificate: 323707 5

Customer: 007025 001

Date: 8/16/2017 Page: 1

Steel: 304/304L

Finish: 2B

Corrosion: ASTM A262/15 A,180Bend-O

Your Order: C17720

NAS Order: DS 0012604 01

PRODUCT DESCRIPTION:

STAINLESS STEEL SHEET, C.R. ANNEALED & PICKLED; UNS 30400/30403
ASTM A240/15a, A480/15b, A666/15; ASME SA240/15, SA480/15, SA666/15
CHEM ONLY OR FOLLOWING ASTM: A276/17, A479/17, A484/16, A312/16
CHEM ONLY OR FOLLOWING ASME: SA312/13, SA479/13
AMS 551H/551J DMRK; MIL-5059D AND 3X CRN MEANS; MIL-4043B
NACE MR0175/ISO 15156-3:2009 A, MR0103/07; Q68766D-A X MAG PERM
MIN. SOLUTION ANNEAL TEMP 1900F, WATER QUENCHED

REMARKS:

Mat'l is free of Mercury Contamination. No weld repairs.
EN 10204:2004 3.1; ROHS 1 & 2 Compliant
Material is free of Radioactive Contamination
Steel Making Process: EAF, AOD, & Cont. Casting
Product Mfg. by a Quality Mfg. Sys. in Conf. w/ISO 9001
*Melted & Manufactured in the USA; Mat'l is DPAAS Compliant

Product Id	Coil #	Skid #	Thickness	Width	Weight	Length	Mark	Pieces	Commodity Code
E26433	01459P		.1200	48.0000	4,175	SHEETS	096.00	1	27 MA

CHEMICAL ANALYSIS

HEAT	CM	C %	CR %	CU %	NI %	MO %	N %	NI %	P %	S %
459P	US	.0162	18.2830	.4160	1.7765	.3080	.0631	8.0820	.0310	.0010

SI %

.3100

MECHANICAL PROPERTIES

Product Id#	Coil #	1/4 o i x	UTS	20C KSI	.2% YS	20C KSI	ELONG % 2"	Hard RB	Tail Hard
E26433	01459P	F T	93.97	47.25	48.77	85.00	85.50		

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical
Dept. Mgr.

KRIS LARK

8/16/2017

#3402

FESS-116483042B

P0,9609

48791

P473811

44461

#3425

INSPECTION CERTIFICATE

YIEH MAU CORP.

INVOICE NO. : F17M810
COMMODITY : PRIMARY COLD ROLLED STAINLESS STEEL SHEETS
SPECIFICATION : AISI 304 JB FINISH WITH PAPER INTERLAYERED
CUSTOMER : EMPIRE RESOURCES, INC.

工廠: 高雄市路竹區廣安路345號
345, SHUN AN RD., LU CHU HSIANG
KAOHSIUNG HSIEN TAIWAN R.O.C.
TEL: 807 9872865 FAX: 807 9807306
CERTIFICATE NO: F17M810-1
DATE OF ISSUE: 08/14/2017

SIZE	NO. of Products	Weight In KG	Heat No.	ID No.	Physical Properties					Chemical Properties							
					Tensile Test					%							
					Y.S.	T.S.	EL.	180U	HV	C	SI	MA	P	S	NI	CI	N
1.20" (3.0MM) X 48" X 96"	1	1871	YU183647	65518127A-212	307	678	54	85	171	4.2	43	88	34	2	810	1818	2.8
1.05" (2.7MM) X 48" X 96"	1	1814	L2513A08	60579408B-211	318	678	51	88	163	2.1	38	106	24	3	806	1832	6.3
0.75" (1.9MM) X 48" X 96"	1	1880	L2142025	66579192B-22	319	670	53	88	175	2.2	54	91	36	4	803	1836	8.3
0.60" (1.5MM) X 48" X 96"	1	1883	YU276985	65518258B-1	288	653	53	83	164	2.3	37	101	38	1	805	1812	3.4
0.48" (1.2MM) X 48" X 96"	1	1813	L2513C03	60579418A-21	302	684	49	88	184	1.7	45	105	23	4	805	1810	5.4

REMARKS: 5 923

WE HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS BEEN MADE IN ACCORDANCE WITH THE RULES OF THE TAIL CERTIFICATE

ASTM A208-12A SAE SA888-15 ANNEALED
COUNTRY OF ORIGIN AND MANUFACTURE: TAIWAN

SEND TEST: 0000 FOR ALL TEST NO.
1. ASME SA888-15, SAE SA888-15 TYPE 304
2. INTERNATIONAL CONFORMANCE WITH ASTM A208-12
3. 100% Tensile Test
4. 100% Tensile Test
5. 100% Tensile Test
6. 100% Tensile Test
7. MERCURY FREE

YIEH MAU CORP.
Manager of Quality Assurance

MECÁNICA	OF	COLADA	Cast Nr.	C	Cr	Cu	Mn	Mo	N	NI	P	S	Si
25,40	0,00	137149	40655 G	0,170	0,106	0,231	0,610	0,024	0,000	0,111	0,011	0,016	0,143
25,40	0,00	141109	42055 G	0,160	0,083	0,271	0,650	0,018	0,000	0,099	0,011	0,010	0,175
25,40	0,00	141112	42134 GM	0,170	0,000	0,290	0,710	0,000	0,007	0,000	0,020	0,008	0,160
17,46	0,00	141114	41994 AA	0,157	0,000	0,000	0,600	0,000	0,000	0,000	0,013	0,025	0,163
25,40	0,00	141110	42055 G	0,160	0,083	0,271	0,650	0,018	0,000	0,099	0,011	0,010	0,175
31,75	0,00	140119	41892 AG	0,167	0,000	0,169	0,800	0,000	0,006	0,000	0,009	0,021	0,198
6,35	0,00	141129	41975 GM	0,160	0,000	0,300	0,710	0,000	0,008	0,000	0,022	0,012	0,180
25,40	0,00	141279	42055 G	0,160	0,083	0,271	0,650	0,018	0,000	0,099	0,011	0,010	0,175
28,58	0,00	141280	42186 AG	0,171	0,000	0,000	0,600	0,000	0,004	0,000	0,009	0,023	0,194
19,05	0,00	141267	41645 G	0,160	0,000	0,000	0,640	0,000	0,000	0,000	0,013	0,019	0,133
25,40	0,00	141269	42055 G	0,160	0,083	0,271	0,650	0,018	0,000	0,099	0,011	0,010	0,175
30,16	0,00	916831	41411 AG	0,165	0,000	0,000	0,758	0,000	0,000	0,000	0,016	0,021	0,220
25,40	0,00	141287	42055 G	0,160	0,083	0,271	0,650	0,018	0,000	0,099	0,011	0,010	0,175
25,40	0,00	141414	42055 G	0,160	0,083	0,271	0,650	0,018	0,000	0,099	0,011	0,010	0,175

Características mecánicas / Mechanical properties

Composición química de la colada / Chemical Analysis of Heat

DESCRIPCIÓN	REQUISITOS	RESULTADOS	REMARKS	OF	MECÁNICA
1018 RED. ESTIRADO 25,40 (1")		978	-0,051	137149	25,40
1018 RED. ESTIRADO 25,40 (1")		998	-0,051	141110	25,40
1018 RED. ESTIRADO 31,75 (1 1/4")		994	-0,051	140119	31,75
1018 RED. ESTIRADO 6,35 (1/4")		1.122	-0,051	141129	6,35
1018 RED. ESTIRADO 25,40 (1")		1.996	-0,051	141279	25,40
1018 RED. ESTIRADO 28,58 (1 1/8")		1.012	-0,051	141280	28,58
1018 RED. ESTIRADO 19,05 (3/4")		1.468	-0,051	141267	19,05
1018 RED. ESTIRADO 25,40 (1")		2.992	-0,051	141269	25,40
1018 RED. ESTIRADO 30,16 (1 3/16")		836	-0,051	916831	30,16
1018 RED. ESTIRADO 25,40 (1")		1.996	-0,051	141287	25,40
1018 RED. ESTIRADO 25,40 (1")		3.994	-0,051	141414	25,40

PRODUCTO SOLICITADO / PRODUCT ACCORDING ASTM A108

Norm : EN 10277

Productos Calibrados de acero. Condiciones técnicas de suministro.

ALBARAN 49784	CLIENTE LES ACIERS TRANSBEC (1997) LTÉE	CUSTOMER
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Nº CERTIFICADO / CERTIFICATE NR.: 49784

De acuerdo a / Made according to:

EN 10204/DIN 50049

3.1

CERTIFICADO DE CALIDAD/QUALITY REPORT

ARANA Y LUPARDO, 2
48490 UGAO-MIRAVALLS/VIZCAYA (SPAIN)
Tfno.: 946480211
Fax: 946480128
Email: calpraderna@calpradernaspraderna.es
www.calpradernaspraderna.es



3P



ARANA Y LUPARDO, 2
48490 UGAO-MIRAVALLLES/VIZCAYA (SPAIN)
Tfno.: 946480211
Fax: 946480128
Email: calpradera@calibradospradera.es
www.calibradospradera.es

CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50049

3.1

Nº CERTIFICADO / CERTIFICATE NR.: 49784

ALBARAN 49784	Delivery Note Nr.
CLIENTE LES ACIERES TRANSBEC (1997) LTÉE	CUSTOMER

Norma : EN 10277 Productos Calibrados de acero. Condiciones técnicas de suministro.

Norm :

Bright steel products. Technical delivery conditions.

MEIDA	OF	COLADA	Resistencia Tens. strength N/mm ²	Límite elástico Yield point N/mm ²	Alargamiento Elongation Lo=50 mm.	Dureza HB	Estricción %
25,40	137149	40655 G	586,71	565,77	21,86	176,00	57,70
25,40	141109	42055 G	623,30	596,92	28,40	200,00	57,39
7,94	141112	42134 GM	706,60	658,20	10,30	216,00	61,76
17,46	141114	41994 AA	560,10	538,07	19,94	180,00	60,88
25,40	141110	42055 G	623,30	596,92	28,40	200,00	57,39
31,75	140119	41892 AG	571,60	542,70	34,68	180,00	58,35
6,35	141129	41975 GM	670,93	637,52	8,10	190,00	62,71
25,40	141279	42055 G	623,30	596,92	28,40	200,00	57,39
28,58	141280	42186 AG	541,06	518,47	14,54	156,00	56,31
19,05	141267	41645 G	632,89	593,23	19,38	200,00	55,28
25,40	141269	42055 G	623,30	596,92	28,40	200,00	57,39
30,16	916831	41411 AG	551,06	525,36	21,06	165,00	59,43
25,40	141287	42055 G	623,30	596,92	28,40	200,00	57,39
25,40	141414	42055 G	623,30	596,92	28,40	200,00	57,39

Calidad Superficial

DESCRIPCION	OF	Clase	EN 10277-1
1018 RED. ESTIRADO 25,40 (1")	137149	2	
1018 RED. ESTIRADO 25,40 (1")	141109	2	
1018 RED. ESTIRADO 7,94 (5/16")	141112	2	
1018 RED. ESTIRADO 17,46 (11/16")	141114	2	
1018 RED. ESTIRADO 25,40 (1")	141110	2	
1018 RED. ESTIRADO 31,75 (1 1/4")	140119	2	
1018 RED. ESTIRADO 6,35 (1/4")	141129	2	
1018 RED. ESTIRADO 25,40 (1")	141279	2	
1018 RED. ESTIRADO 28,58 (1 1/8")	141280	2	
1018 RED. ESTIRADO 19,05 (3/4")	141267	2	
1018 RED. ESTIRADO 25,40 (1")	141269	2	
1018 RED. ESTIRADO 30,16 (1 3/16")	916831	2	
1018 RED. ESTIRADO 25,40 (1")	141287	2	
1018 RED. ESTIRADO 25,40 (1")	141414	2	

Observaciones: BARRAS DE ACERO ESTIRADAS EN FRIO SIN ALEAR

ARANA Y LUPARDO, 2
48490 UGAO-MIRAVALLLES/VIZCAYA (SPAIN)
Tfno.: 946480211
Fax: 946480128
Email: calpradera@calibradospradera.es
www.calibradospradera.es



CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50049

3.1

Nº CERTIFICADO / CERTIFICATE NR.: 49784

ALBARAN	49784	DELIVERY Note Nr.
CLIENTE	LES ACIERES TRAVNBBEC (1997) LTÉE	CUSTOMER

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norma : EN 10277

Brighi steel products. Technical delivery conditions.

DEPARTAMENTO DE CALIDAD: Certifica que el mencionado producto cumple con las especificaciones del pedido.

QUALITY DEPARTMENT: Certify that the product fulfils the order specifications.

Firmado: Susana Fernandez
Directora de Calidad

Fecha/Date: 23/11/2017



MILL TEST

SHIP TO	CERT CODE: 9	DIE NUMBER S 4660	DATE OF SHIPMENT Oct/19/2017	ORDER NO. 210182	MANIFEST NO. 379633
SO DESCRIPTION 2.5 x 1.5 FB	CUSTOMER PO C74902	ALLOY 6061	SALESMAN HOUSE ACCOUNTS	MADE IN CANADA	
	CUSTOMER PART NUMBER V836661	TEMPER T6511		CERTIFICATION ASTM B221-14 - AMS QQA 200/8	

Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness Rockwell F	Conductivity
A.11	6061	Oct/13/2017	42.30	38.40	12.80	89.0, 89.2, 89.5	

Chemical Composition

Cast Number	Lot	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ga	V	B	Zr	Pb	Sn	Sr	Co	Al	Other
3B6350	A.11	6061	0.6	0.15	0.21	0.04	0.87	0.07	0	0.01	0.02	0	0	0	0	0	0	0	0	0	0

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

T. Mohabir

Tulsiram Mohabir
Quality Control Manager

Material Test Report

Manifest: 332924
Ticket: 5569619

Our Order: 880459 - 1 Cust P.O.: 4500833757-RY003

Die: ES04036

Alloy Temper: 6061 T6511

Print Date: 11/21/17

Description: 1.250 x 3.000 RECT. BAR

Part: 160001446

Chemical Composition

Cast Num	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Other Each	Other Total
38355	0.56	0.24	0.21	0.08	0.84	0.06	0.02	0.01	0.05	0.15
										Maximum

Mechanical Properties

Strength ksi

Sample ID	Cast #	Lot #	Test Date	Ultimate Tensile	Yield	2% offset	Elongation 2" gage length
74971	38355	A11	10/31/17	49.37	45.55		14.8

Applicable Specifications: ASTM B221-14 AMS-QQ-A200/8A

Country of Origin: ONTARIO, CANADA

Can Art Aluminum Extrusion Inc. certifies that materials shipped under this order have been inspected and tested in accordance with Aluminum Association and agreed upon customer specifications. Can Art assumes no liability for additional costs which may be incurred during the customer's manufacture and sale of its products, and is subject only to the replacement of any materials not within agreed upon specifications provided written notification is received by Can Art within 30 days from the date of shipment.

Evan Eng, Quality Assurance Manager

#20497

FAL-12-V

RG.11505-49289

Material Test Report

Manifest: 328412

Ticket:

5552835

Our Order: 437823 - 2

Cust P.O.: 792398

Dic: ES05740

Part: 5131-8251

Alloy Temper: 6061 T6511

Description: 1.000 x 2.000

Print Date: 8/16/17

Chemical Composition										
CastNum	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	OtherEach	OtherTotal
3B6402	0.60	0.19	0.23	0.04	0.84	0.05	0.01	0.02	0.05	0.15
Maximum										

Mechanical Properties										
Sample ID	Cast #	Lot #	Test Date	Ultimate Tensile	Yield	2% offset	Elongation	2" gage length	Strength ksi	
427847	3B6402	A11	8/9/17	41.86	38.62			8.9		

Applicable Specifications: ASTM B221-14 AMS-QQ-A200/8A

Country of Origin: ONTARIO, CANADA

Can Art Aluminum Extrusion Inc. certifies that materials shipped under this order have been inspected and tested in accordance with Aluminum Association and agreed upon customer specifications. Can Art assumes no liability for additional costs which may be incurred during the customer's manufacture and sale of its products, and is subject only to the replacement of any materials not within agreed upon specifications provided written notification is received by Can Art within 30 days from the date of shipment.

Evan Eng, Quality Assurance Manager

78000

FAL-110-16

CH-41910

MILL TEST

4867d

SHIP TO ACIER CAMPI SO DESCRIPTION 1" X 6" FLAT BAR	CERT CODE: 1	DIE NUMBER S 4658 ALLOY 6061 TEMPER T6	DATE OF SHIPMENT Sep/07/2017 SALESMAN HOUSE ACCOUNTS	ORDER NO. 208405 - 1 MANIFEST NO. 377291 MADE IN CANADA CERTIFICATION MILL TEST ASTM B221-14
CUSTOMER PO 106802	CUSTOMER PART NUMBER DT04658	PART DESCRIPTION 1" X 6" FLAT BAR		

Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness Rockwell F	Conductivity
A.11	6061	Sep/07/2017	42.80	40.30	10.30	90.9,91.1,91.5	

Chemical Composition

Cast Number	Lot	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ca	V	B	Zr	Pb	Sn	Sr	Co	Al	Other
37241	A.11	6061	0.576	0.216	0.189	0.06	0.832	0.056	0	0.023	0.019	0	0	0	0	0	0	0	0	0	0

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

T. Mohabir

Tulsiram Mohabir
Quality Control Manager



North American Stainless Canada Inc.
740 Imperial Road North
Guelph, ON N1K1Z3
Canada

METALLURGICAL TEST REPORT

50230
6870 Highway 42 East
Ghent, KY 41045-9615
(502) 347-6000

Certificate: 373018 31

Customer: 007080 003

Date: 1/19/2018 Page: 1

Steel: 304/304L

Finish: CD

Your Order: MS1116

NAS Order: IN 0257931 04 Heat Treat Code: 44,987

Corrosion: ASTM A262/15 Prac A/E OK

PRODUCT DESCRIPTION:

Round Bar, Annealed, Cold Draw
UNS 30400/30403 EN 10204 3.1, ASTM A484/16
ASTM A276/17, ASTM A479/17, ASTM A182/16a CHEM ONLY,
ASTM A279/13, ASTM A182/13 CHEM ONLY
AMS 5639J, AMS 5647K, AMS Q38-763D, Q38-763F, ASTM F899/12b
SOLUTION ANNEAL TEMP 1900F MIN, ASTM A320/17a CL 1 GR B8
ASTM A193/16-ASME SA193/13 CL 1 GR B8

REMARKS:

COMPLIES W/REQUIREMENTS OF DPAR 252.225-7009 EU DIRECTIVE
2011/65/EU. ROHS. EAF+AOD+CC. NO WELD REPAIR. MELTED AND MFG
IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

3/8

Product Id	Std & Diameter	Size	Weight	-----Length-----	Mark	Pieces	Commodity Code
BJ2280 9	.3750		1.281	144.00	11	1	

CHEMICAL ANALYSIS CM(Country of Met) ES(Spain) US(United States) ZA(South Africa) JP(Japan) Lab Accreditation Bureau, ISO/IEC 17025, Certificate# L2323
Chemical Analysis per ASTM A751/14a

CH	C %	CO %	CR %	CU %	MN %	MO %	N %	NI %	P %
US	.028	.18	18.14	.39	1.31	.280	.071	8.50	.029
S %	SI %								
.0260	.23								

MECHANICAL PROPERTIES

Product Id	1 d o i o r	HB	.2YS KSI	UTS KSI	RA %	ELng %	2"
BJ2280 9	R L	226.0	84.97	111.55	69.24	41.70	

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical
Dept. Mgr.

KRIS LARK

1/19/2018

PO 6184

Plant Serial: 00273359
Kaiser Order Number: 6025801
Line Item: 002
Page 2 of 2

Almeo L. Macchowski

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

CERTIFICATION

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

**KAISER
ALUMINUM
FABRICATED PRODUCTS**

Best in Class

CERTIFIED TEST REPORT
<http://Online.KaiserAluminum.com>

5155

KAL-14-V

49338

7/14-1472

Test de dureté Rockwell Rockwell Hardness Test

LES ACIERS TRANSBEC (1997) LTEE.

4054 BOUL. LE CORBUSIER, #201

LAVAL, QC

H7L5R2

commande Sapa / Sapa order # : 6090684

bon de commande / Purchase order # : OU-46528

de matrice / Die # : MS 13128

Description : 1/4" O.D. ROD

Alliage & trempage / Alloy & temper : 6061 T6

Longueur / Length : 6097 mm

Contrôle / Control # : 76511-3

Coulée / Cast # : 67081

Dureté Rockwell E /
Rockwell E hardness : 88 HRE

Min. requis /
Min. required : 88 HRE

Max. permis /
Max. permitted : 100 HRE

Composition chimique typique / Typical chemical composition :

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti
6063	0.20 - 0.60	0.35 Max	0.10 Max	0.10 Max	0.45 - 0.90	0.10 Max	0.10 Max	0.10 Max
6005	0.60 - 0.90	0.35 Max	0.10 Max	0.10 Max	0.40 - 0.60	0.10 Max	0.10 Max	0.10 Max
6005A	0.66 - 0.74	0.14 - 0.28	0.08 - 0.16	0.18 - 0.26	0.46 - 0.54	0.03 Max	0.05 Max	0.05 Max
6061	0.40 - 0.80	0.70 Max	0.15 - 0.40	0.15 Max	0.80 - 1.20	0.04 - 0.35	0.25 Max	0.15 Max
6351	0.7 - 1.3	0.5 Max	0.10 Max	0.40 - 0.80	0.40 - 0.80	---	0.20 Max	0.20 Max


Nous certifions que le matériel fourni rencontre les exigences chimiques telles qu'annoncées par la norme ASTM B-221-14 excepté pour la section 8.2 (nombre de spécimen) .

We hereby certify that the material supplied meets the chemical properties as published by the ASTM B-221-14 except for section 8.2 (number of specimen) .

Sincèrement vôtre,

date : 2016-10-06

Yours truly,


Gilles Pelletier
Technicien de la qualité
Quality technician

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 460616R2.000 DATE: MAR 19 2018
 PO / BATCH NO: 039320/5052638

MATERIAL CERT REC'D: YES QUANTITY RECEIVED: 20'
 QUANTITY INSPECTED: 20' QUANTITY REJECTED: 0
 THICKNESS ORDERED: 2.000 THICKNESS RECEIVED: 2.000
 SHEET SIZE ORDERED: N/A SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="radio"/> Y	
CORRECT FINISH	<input checked="" type="radio"/> Y	
CORROSION	<input checked="" type="radio"/> Y	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y	
CORRECT THICKNESS	<input checked="" type="radio"/> Y	
PHOTO REQUIRED	<input checked="" type="radio"/> Y	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="radio"/> Y	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="radio"/> Y	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.				
HRC	HRB	DUR A	DUR D	WEBSTER
RECORD RESULTS BELOW				
TYPE OF MATERIAL				
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

Testers located in the Quality Office

QC 18 INSPECTION ENGINEERING SIGNOFF (if required)

INSPECTED BY: DAS SIGNED OFF BY: _____

DATE: 9-89 MAR 19 2018

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR

SPECIFICATION:

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/415/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4150)
OR ASTM B211 OR ASTM B221

PART NUMBER:

M6061T6R/D,DDD
DIA.

WHERE "D,DDD" = DIAMETER IN INCHES

EG. 5/8" ROUND BAR = M6061T6R0.625

B	REFORMAT DWG, ADD B211& B221 SPEC (ZIN DB-1),	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	09.07.13		
DRAWING NO.		REV. B	
M6061T6R		SHEET 1 OF 1	
TITLE		SCALE	
6061-T6 ROUND BAR		NTS	
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RELEASED
2009-09-09
MJD

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M600116R1.500 DATE: MAR 19 2018
 PO / BATCH NO: 039320/5032637

MATERIAL CERT REC'D: Yes QUANTITY RECEIVED: 20'
 QUANTITY INSPECTED: 20' QUANTITY REJECTED: 0
 THICKNESS ORDERED: 1.500 THICKNESS RECEIVED: 1.500
 SHEET SIZE ORDERED: N/A SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/>	
CORROSION	<input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/>	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/>	
CORRECT THICKNESS	<input checked="" type="checkbox"/>	
PHOTO REQUIRED	<input checked="" type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/>	
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/>	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.				
RECORD RESULTS BELOW				
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D
	WEBSTER			

QC 18 INSPECTION
 ENGINEERING SIGNOFF (if required)
 INSPECTED BY: DAS
 DATE: 9-89 MAR 19 2018
 SIGNED OFF BY: _____
 DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR

SPECIFICATION:

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/415/416)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER:

M6061T6R/D DDD
DIA.

WHERE "D DDD" = DIAMETER IN INCHES

EG. 5/8" ROUND BAR = M6061T6R0.625

RELEASED
2009-09-09
MFD

B	REFORMAT DWG. ADD B211 & B221 SPEC (2N D8-1).	CP	09.07.13
A	REF PART 08-020A	DS	01.06.08
REV.	NEW ISSUE	BY	DATE
DESIGN		DESCRIPTION	
DRAWN		DART AEROSPACE LTD	
CHECKED		HAWKESBURY, ONTARIO, CANADA	
MFG. APPR.		DRAWING NO.	REV. B
APPROVED		M6061T6R	SHEET 1 OF 1
DE APPR.		TITLE	SCALE
DATE	09.07.13	6061-T6 ROUND BAR	NTS

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Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u>	SIGNED OFF BY: _____
DATE: <u>9-89 MAR 19 2018</u>	DATE: _____

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.				
RECORD RESULTS BELOW				
HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL				
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

Testers located in the Quality Office

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="radio"/> Y	
CORRECT FINISH	<input checked="" type="radio"/> Y	
CORROSION	<input checked="" type="radio"/> Y	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y	
CORRECT THICKNESS	<input checked="" type="radio"/> Y	
PHOTO REQUIRED	<input checked="" type="radio"/> Y	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="radio"/> Y	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="radio"/> Y	

Heat # 62081

Attn B221

MATERIAL CERT REC'D: <u>Yes</u>	THICKNESS ORDERED: <u>0.250</u>
QUANTITY RECEIVED: <u>20'</u>	THICKNESS RECEIVED: <u>0.250</u>
QUANTITY INSPECTED: <u>20'</u>	SHEET SIZE ORDERED: <u>N/A</u>
QUANTITY REJECTED: <u>0</u>	SHEET SIZE RECEIVED: <u>N/A</u>

DATE: MAR 19 2018

MATERIAL: 76061H6R0.250

PO / BATCH NO.: 039320/5052636

MATERIAL RECEIPT INSPECTION FORM

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR

SPECIFICATION:

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER:

M6061T6R/D.DDD
DIA.

WHERE "D.DDD" = DIAMETER IN INCHES

EG. 5/8" ROUND BAR = M6061T6R0.625

RELEASED
2009-09-09
MAD

B	REFORMAT DWG. ADD B211 & B221 SPEC (ZN DB-1), REF PAR 08-020A	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR			
DATE	09.07.13		

DART AEROSPACE LTD		REV. B
HAWKESBURY, ONTARIO, CANADA		SHEET 1 OF 1
DRAWING NO.	M6061T6R	SCALE
TITLE	6061-T6 ROUND BAR	NTS

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MATERIAL RECEIPT INSPECTION FORM

PO / BATCH NO.: 039320/5052635

THICKNESS ORDERED: 1.125
 THICKNESS RECEIVED: 1.125
 SHEET SIZE ORDERED: 24" x 48"
 SHEET SIZE RECEIVED: 24" x 48"

MATERIAL: m60616 R1.125
 DATE: MAR 19 2018

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 12'
 QUANTITY INSPECTED: 12'
 QUANTITY REJECTED: 0

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="radio"/> Y	
CORRECT FINISH	<input checked="" type="radio"/> Y	
CORROSION	<input checked="" type="radio"/> Y	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y	45 in 6221
CORRECT THICKNESS	<input checked="" type="radio"/> Y	
PHOTO REQUIRED	<input checked="" type="radio"/> Y	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	Heat # 200238043
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="radio"/> Y	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="radio"/> Y	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.				
HRC	HRB	DUR A	DUR D	WEBSTER
RECORD RESULTS BELOW				
TYPE OF MATERIAL				
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

Testers located in the Quality Office

QC 18 INSPECTION
 ENGINEERING SIGNOFF (if required)
 INSPECTED BY: 11 DAS
 DATE: 9-89 MAR 19 2018
 SIGNED OFF BY: _____
 DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM ROUND BAR

SPECIFICATION:

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/415/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER:

M6061T6R[D.DDD]
DIA.

WHERE "D.DDD" = DIAMETER IN INCHES

EG. 5/8" ROUND BAR = M6061T6R0.625

B	REFORMAT DWG. ADD B211& B221 SPEC (ZN D8-1).	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	09.07.13		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		REV. B	
DRAWING NO. M6061T6R		SHEET 1 OF 1	
TITLE 6061-T6 ROUND BAR		SCALE NTS	
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RELEASED
2009-09-09
MP

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: DAS	SIGNED OFF BY:
DATE: 9-89 MAR 19 2018	DATE:

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.				
RECORD RESULTS BELOW				
HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL				
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

Testers located in the Quality Office

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="radio"/> Y	
CORRECT FINISH	<input checked="" type="radio"/> Y	
CORROSION	<input checked="" type="radio"/> Y	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y	
CORRECT THICKNESS	<input checked="" type="radio"/> Y	
PHOTO REQUIRED	<input checked="" type="radio"/> Y	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="radio"/> Y	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="radio"/> Y	

Heat # 646m
ASTM A276

MATERIAL CERT REC'D:	YES	THICKNESS ORDERED:	0.325
QUANTITY RECEIVED:	36'	THICKNESS RECEIVED:	0.325
QUANTITY INSPECTED:	36'	SHEET SIZE ORDERED:	N/A
QUANTITY REJECTED:	0	SHEET SIZE RECEIVED:	N/A

MATERIAL: M304R0.325	DATE: MAR 19 2018
PO / BATCH NO: 039320/50526341	

MATERIAL RECEIPT INSPECTION FORM

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 304/316 SS ROUND BAR
(NOTE: AISI 303 NOT ACCEPTABLE)

SPECIFICATION: ASTM A276
PART NUMBER: M304R/D DDD
DIA.

WHERE "D DDD" = DIAMETER IN INCHES
EG. 0.75" ROUND BAR = M304R0.750

RELEASED
07/08/23/1/10

B	REFORMAT DWG. ADD SPECS (ZN D6-1).	CP	08.07.15
A	NEW ISSUE	AJS	08.03.03
REV.	DESCRIPTION	BY	DATE
DESIGN	AJS		
DRAWN	99		
CHECKED	5		
MFG. APPR.	M		
APPROVED	M		
DE APPR.			
DATE	09.07.15		
TITLE		REV. B	
304/316 ROUND BAR		SHEET 1 OF 1	
DART AEROSPACE LTD		SCALE	
HAWKESBURY, ONTARIO, CANADA		NTS	
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061H61.000x06.000 DATE: MAR 19 2018
 PO / BATCH NO.: 039320/5032633

MATERIAL CERT REC'D: Yes QUANTITY RECEIVED: 24
 QUANTITY INSPECTED: 24 QUANTITY REJECTED: 0
 THICKNESS ORDERED: 1.000 THICKNESS RECEIVED: 1.000
 SHEET SIZE ORDERED: N/A SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="radio"/> Y	
CORRECT FINISH	<input checked="" type="radio"/> Y	
CORROSION	<input checked="" type="radio"/> Y	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y	
CORRECT THICKNESS	<input checked="" type="radio"/> Y	
PHOTO REQUIRED	<input checked="" type="radio"/> Y	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="radio"/> Y	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="radio"/> Y	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.				
RECORD RESULTS BELOW				
HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL				
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				
Testers located in the Quality Office				

QC 18 INSPECTION
 ENGINEERING SIGNOFF (if required)
 INSPECTED BY: DAS
 DATE: 9-89 MAR 19 2018
 SIGNED OFF BY: _____
 DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T652 ALUMINUM BAR

SPECIFICATION:

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/415/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER:

M6061T6B | T.TTT | X | WW.WWW |
THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (Zn D7-1)	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV.		BY	DATE
DESIGN	DS	DART AEROSPACE LTD	
DRAWN	DS	HAWKESBURY, ONTARIO, CANADA	
CHECKED	DS	DRAWING NO.	REV. B
MFG. APPR.	DS	M6061T6B	SHEET 1 OF 1
APPROVED	DS	TITLE	SCALE
DE APPR.	DS	6061-T6 BAR	NTS
DATE	09.07.13	COPYRIGHT © 2001 BY DART AEROSPACE LTD.	

RELEASED
2009-09-03
AND

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061681.000x02.000 PO / BATCH NO.: 039320/5052632 DATE: MAR 19 2018

MATERIAL CERT REC'D:	<u>YES</u>	THICKNESS ORDERED:	<u>1.000</u>
QUANTITY RECEIVED:	<u>40</u>	THICKNESS RECEIVED:	<u>1.000</u>
QUANTITY INSPECTED:	<u>40</u>	SHEET SIZE ORDERED:	<u>N/A</u>
QUANTITY REJECTED:	<u>0</u>	SHEET SIZE RECEIVED:	<u>N/A</u>

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/>	
CORROSION	<input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/>	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/>	
CORRECT THICKNESS	<input checked="" type="checkbox"/>	
PHOTO REQUIRED	<input checked="" type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/>	
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/>	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.				
RECORD RESULTS BELOW				
HRC	HRB	DUR A	DUR D	WEBSTER

QC 18 INSPECTION

ENGINEERING SIGNOFF (if required)

SIGNED OFF BY: _____

DATE: MAR 19 2018

9-89

DAS

11

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION:

QA-A-225/8 OR AMS-QC-A-225/8 (OR AMS 4117/4128/415/4116)
OR QA-A-200/8 OR AMS-QC-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER:

M6061T6B T.TTT X WW.WWW

THICK WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

DESIGN	DS	DESCRIPTION	CP	09.07.13
DRAWN	DS	DART AEROSPACE LTD	DS	01.06.08
CHECKED	AS	HAWKESBURY, ONTARIO, CANADA	BY	DATE
MFG. APPR	AS	DRAWING NO.		
APPROVED	AS	M6061T6B		
DE APPR	AS	TITLE		
DATE	09.07.13	6061-T6 BAR		
<p>REV. B SHEET 1 OF 1 SCALE NTS</p>				

RELEASED
2009-05-02

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 760617681.250 X 0.3.000 PO / BATCH NO.: 039390/5032681 DATE: MAR 19 2018

MATERIAL CERT REC'D:	<u>YES</u>	THICKNESS ORDERED:	<u>1.250</u>
QUANTITY RECEIVED:	<u>12'</u>	THICKNESS RECEIVED:	<u>1.250</u>
QUANTITY INSPECTED:	<u>12'</u>	SHEET SIZE ORDERED:	<u>N/A</u>
QUANTITY REJECTED:	<u>0</u>	SHEET SIZE RECEIVED:	<u>N/A</u>

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/> Y	
CORRECT FINISH	<input checked="" type="checkbox"/> Y	
CORROSION	<input checked="" type="checkbox"/> Y	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> Y	<u>Aston B021</u>
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y	
PHOTO REQUIRED	<input checked="" type="checkbox"/> Y	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y	<u>Heat # 38355</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/> Y	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/> Y	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.				
RECORD RESULTS BELOW				
HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL				
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

Testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u>	SIGNED OFF BY: _____
DATE: <u>9-89 MAR 19 2018</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION:

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/415/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER:

M6061T6B T.TTT X WWW.WWW/
THICK WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WWW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

B	REMOVE QQ-A-250/1 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (END 1)	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN	DS		
CHECKED	DS		
MFG. APPR.	DS		
APPROVED	DS		
DE APPR.	DS		
DATE	09.07.13		

DART AEROSPACE LTD		REV. B
HAWKESBURY, ONTARIO, CANADA		SHEET 1 OF 1
DRAWING NO. M6061T6B		SCALE
TITLE 6061-T6 BAR		NTS
DATE 09.07.13		

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RELEASED
2009-05-03

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061H6B2.500X0.500 PO / BATCH NO: 039320/5032630 DATE: MAR 19 2018

MATERIAL CERT REC'D: Yes QUANTITY RECEIVED: 24' QUANTITY INSPECTED: 24' QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.500 THICKNESS RECEIVED: 0.500 SHEET SIZE ORDERED: N/A SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="radio"/> Y	
CORRECT FINISH	<input checked="" type="radio"/> Y	
CORROSION	<input checked="" type="radio"/> Y	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y	
CORRECT THICKNESS	<input checked="" type="radio"/> Y	
PHOTO REQUIRED	<input checked="" type="radio"/> Y	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	
CORRECT # ON THE MATERIAL	<input checked="" type="radio"/> Y	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="radio"/> Y	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="radio"/> Y	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW				
HRC	HRB	DUR A	DUR D	WEBSTER

Testers located in the Quality Office

QC 18 INSPECTION ENGINEERING SIGNOFF (if required)

INSPECTED BY: DAS SIGNED OFF BY: _____ DATE: 9-89 MAR 19 2018

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION:

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/415/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER:

M6061T6B T.TTT X WWW.WWW

THICK WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WWW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

B	REWORK: QQ-A-250/1 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (EN D7-1)	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN	DS		
CHECKED	DS		
MFG. APPR.	DS		
APPROVED	DS		
DE APPR.	DS		
DATE	09.07.13		

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA

DRAWING NO. M6061T6B
TITLE 6061-T6 BAR

REV. B
SHEET 1 OF 1
SCALE NTS

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RELEASED
2009-05-02

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M1018R0313 DATE: MAR 19 2018

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 121
 QUANTITY INSPECTED: 121
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.313
 THICKNESS RECEIVED: 0.313
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

PO / BATCH NO.: 039320/5052629

DESCRIPTION	NCR (Check Y/N)	COMMENTS
-------------	-----------------	----------

SURFACE DAMAGE	<input checked="" type="radio"/> Y	
CORRECT FINISH	<input checked="" type="radio"/> Y	
CORROSION	<input checked="" type="radio"/> Y	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y	
CORRECT THICKNESS	<input checked="" type="radio"/> Y	
PHOTO REQUIRED	<input checked="" type="radio"/> Y	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="radio"/> Y	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="radio"/> Y	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.				
RECORD RESULTS BELOW				
HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL				
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

Testers located in the Quality Office

QC 18 INSPECTION ENGINEERING SIGNOFF (if required)

INSPECTED BY: DAS SIGNED OFF BY: _____

DATE: 9-89 MAR 19 2018

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 1018-1025 ROUND BAR

SPECIFICATION:

MIL-S-7097 OR ASTM A108

PART NUMBER:

M1018-R/D DDD WHERE D DDD = DIAMETER IN INCHES DIA.

EG. 7/8" ROUND BAR = M1018-R/D 875

TOLERANCES:

PER ASTM A108 AS FOLLOWS:

SIZE TOLERANCE
 UP TO 1.5" INCL. +0.000/-0.002
 OVER 1.5" TO 2.5" INCL. +0.000/-0.003
 OVER 2.5" TO 4.0" INCL. +0.000/-0.004
 OVER 4.0" TO 6.0" INCL. +0.000/-0.005
 OVER 6.0" TO 8.0" INCL. +0.000/-0.006

RECEIVED
 2012-09-24

REV.	DESCRIPTION	BY	DATE	CP	DS	DATE
A	NEW ISSUE					
B	REFORMAT, ADD ASTM A108, ADD TOLERANCES					
DESIGN	DS					
DRAWN	CP					
CHECKED						
MFG APPR.						
APPROVED						
DE APPR.						
DATE	12.09.05					

DART AEROSPACE LTD
 HAWKESBURY, ONTARIO, CANADA
 DRAWING NO. M1018-R
 TITLE 1018-1025 ROUND BAR
 REV. B
 SHEET 1 OF 1
 SCALE NTS
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MATERIAL RECEIPT INSPECTION FORM

PO / BATCH NO.: 039320/5052628

THICKNESS ORDERED: 186A
 THICKNESS RECEIVED: 186A
 SHEET SIZE ORDERED: 4x8
 SHEET SIZE RECEIVED: 4x8

MATERIAL: M3045186A
 DATE: MAR 19 2018

MATERIAL CERT REC'D: 128#2
 QUANTITY INSPECTED: 128#2
 QUANTITY REJECTED: 0

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y	
CORRECT FINISH	Y	
CORROSION	Y	
CORRECT GRAIN DIRECTION	Y	
CORRECT MATERIAL PER M-DRAWING	Y	
CORRECT THICKNESS	Y	
PHOTO REQUIRED	Y	
CORRECT REF # TO LINK CERT	Y	
CORRECT MATERIAL IDENTIFICATION	Y	
CORRECT M# ON THE MATERIAL	Y	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.				
RECORD RESULTS BELOW				
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D
	WEBSTER			

Testers located in the Quality Office

QC 18 INSPECTION
 ENGINEERING SIGNOFF (if required)
 INSPECTED BY: DAS
 DATE: 9-89 MAR 19 2018
 SIGNED OFF BY:
 DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 304/316 SS SHEET
ANNEALED

SPECIFICATION:

MIL-S-5059
OR AMS 5513 (304)
OR AMS 5524 (316)
OR ASTM A240
OR ASME SA240

FINISH:

FINISH IDENTIFIER
UNPOLISHED No. 1
UNPOLISHED No. 2D
UNPOLISHED No. 2B
POLISHED No. 3
POLISHED No. 4
BUFFED No. 6
BUFFED No. 7
BUFFED No. 8
DART M-NUMBER
1P
2D
NONE
3P
4P
6P
7P
8P

PART NUMBER:

M304S TT GA #P
GA

WHERE "TT" = GAUGE THICKNESS
WHERE "P" = FINISH IDENTIFIER

EG. 16 GAUGE SS SHEET 2B FINISH = M304S16GA
EG. 16 GAUGE SS SHEET No. 4 POLISHED = M304S16GA4P

GAUGE THICKNESS REFERENCE:

GAUGE	NOM. THICK. (IN)	THICKNESS RANGE (IN)
26	0.01875	0.0178 - 0.019
25	0.021875	0.0199 - 0.023
24	0.025	0.024 - 0.026
23	0.028125	0.027 - 0.029
22	0.03125	0.030 - 0.032
21	0.034375	0.033 - 0.035
20	0.0375	0.036 - 0.040
19	0.04375	0.041 - 0.046
18	0.050	0.047 - 0.052
17	0.05625	0.053 - 0.058
16	0.0625	0.059 - 0.065
15	0.0703125	0.066 - 0.072
14	0.078125	0.073 - 0.083
13	0.08625	0.084 - 0.098
12	0.09375	0.099 - 0.114
11	0.125	0.115 - 0.130
10	0.140625	0.131 - 0.145
9	0.15625	0.146 - 0.160
8	0.171875	0.161 - 0.176
7	0.1875	0.182 - 0.194
6	0.2031	0.194 - 0.212
5	0.2188	0.201 - 0.228
4	0.2344	0.225 - 0.243
3	0.2500	0.238 - 0.262
2	0.2656	0.254 - 0.278
1	0.2813	0.269 - 0.293
0	0.3125	0.301 - 0.325



REV	DESCRIPTION	DATE
D	ADDED GAUGES 0-7	15.01.06
C	DEFINED FINISH OPTION (2N CB AND EXAMPLE OF MATERIAL FIN WITH FINISH OTHER THAN 2B (2N B5).	12.09.20
B	REFORMAT DWG. ADD ASTM/ASME SPECS (2N DB-1). ADD GAUGE REF (DB-1). REF PAR 08-020A	09.06.01
A	NEW ISSUE	01.09.24
DESIGN	DS	DATE
DRAWN	AS	
CHECKED	AS	
MFG. APPR.	M304S	
APPROVED	304/316 SS SHEET	
DE APPR.		
DATE	15.01.06	

RELEASED
2015 FEB 04
ECN 15-322

DART AEROSPACE LTD
HAMKESBURY, ONTARIO, CANADA
REV. D
SHEET 1 OF 1
SCALE
NTS

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M3045116A DATE: MAR 19 2018

MATERIAL CERT REC'D: Yes QUANTITY RECEIVED: 64/12 QUANTITY INSPECTED: 64/12 QUANTITY REJECTED: 0

THICKNESS ORDERED: 116A THICKNESS RECEIVED: 116A SHEET SIZE ORDERED: 4x8 SHEET SIZE RECEIVED: 4x8

PO / BATCH NO.: 039320/5052627

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="radio"/> Y	
CORRECT FINISH	<input checked="" type="radio"/> Y	
CORROSION	<input checked="" type="radio"/> Y	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y	
CORRECT THICKNESS	<input checked="" type="radio"/> Y	
PHOTO REQUIRED	<input checked="" type="radio"/> Y	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="radio"/> Y	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="radio"/> Y	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.
RECORD RESULTS BELOW
TYPE OF MATERIAL
SIZE OF TEST SAMPLE
HARDNESS / DUROMETER READING
HRC
HRB
DUR A
DUR D
WEBSTER

Testers located in the Quality Office

QC 18 INSPECTION ENGINEERING SIGNOFF (if required)

INSPECTED BY: DAS SIGNED OFF BY: _____

DATE: 9-8-84 MAR 19 2018

DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 304/316 SS SHEET
ANNEALED

SPECIFICATION:

MIL-S-5059
OR AMS 5513 (304)
OR AMS 5514 (316)
OR ASTM A240
OR ASME SA240

FINISH:

FINISH IDENTIFIER
UNPOLISHED No. 1
UNPOLISHED No. 2D
UNPOLISHED No. 2B
POLISHED No. 3
POLISHED No. 4
BUFFED No. 6
BUFFED No. 7
BUFFED No. 8
DART M-NUMBER
1P
2D
NONE
3P
4P
6P
7P
8P

PART NUMBER:

M304S TT GA #P
GA

WHERE "TT" = GAUGE THICKNESS
WHERE "#P" = FINISH IDENTIFIER

EG. 16 GAUGE SS SHEET 2B FINISH = M304S16GA
EG. 16 GAUGE SS SHEET No. 4 POLISHED = M304S16GA4P

GAUGE THICKNESS REFERENCE:

GAUGE	NOM. THICK. (IN)	THICKNESS RANGE (IN)
26	0.01875	0.0178 - 0.019
25	0.021875	0.0199 - 0.023
24	0.025	0.024 - 0.026
23	0.028125	0.027 - 0.029
22	0.03125	0.030 - 0.032
21	0.034375	0.033 - 0.035
20	0.0375	0.036 - 0.040
19	0.04375	0.041 - 0.046
18	0.050625	0.047 - 0.052
17	0.05625	0.053 - 0.058
16	0.0625	0.059 - 0.065
15	0.0703125	0.066 - 0.072
14	0.078125	0.073 - 0.083
13	0.08375	0.084 - 0.098
12	0.109375	0.099 - 0.114
11	0.125	0.115 - 0.130
10	0.140625	0.131 - 0.145
9	0.15625	0.146 - 0.160
8	0.171875	0.161 - 0.176
7	0.1875	0.182 - 0.194
6	0.2031	0.194 - 0.212
5	0.2188	0.201 - 0.226
4	0.2344	0.225 - 0.243
3	0.2500	0.238 - 0.262
2	0.2656	0.254 - 0.278
1	0.2813	0.269 - 0.293
0	0.3125	0.301 - 0.325



RELEASED
2015 FEB 04
ECN 15-322

REV	DESCRIPTION	DATE
D	ADDED GAUGES 0-7	15.01.06
C	DEFINED FINISH OPTION (2N CB AND EXAMPLE OF MATERIAL FIN WITH FINISH OTHER THAN 2B (2N B5))	12.09.20
B	REFORMAT DWG. ADD ASTM/ASME SPECS (2N DB-1). ADD GAUGE REF (CB-1). REF PAR DB-020A	09.06.01
A	NEW ISSUE	01.09.24
DESIGN	DS	DATE
DRAWN	AS	
CHECKED		
MFG. APPR		
APPROVED		
DE APPR		
DATE	15.01.06	

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
M304S
304/316 SS SHEET
REV D
SHEET 1 OF 1
SCALE
NTS

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